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# **On Target Enterprises HF Capabilities**

# On Target Enterprises Overview

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- Woman-Owned Small Business
- Cocoa Florida Main Office
- Receiver development laboratory
- System test ranges
  - 500 acre open field range in Colorado
  - 15 acre jungle range in Florida
- Products
  - MISER: UHF/VHF detect/DF/record
  - WATCHDOG: HF detect/DF/map/record
  - SentryGo: Marine Navigational Radar detect/DF/characterize

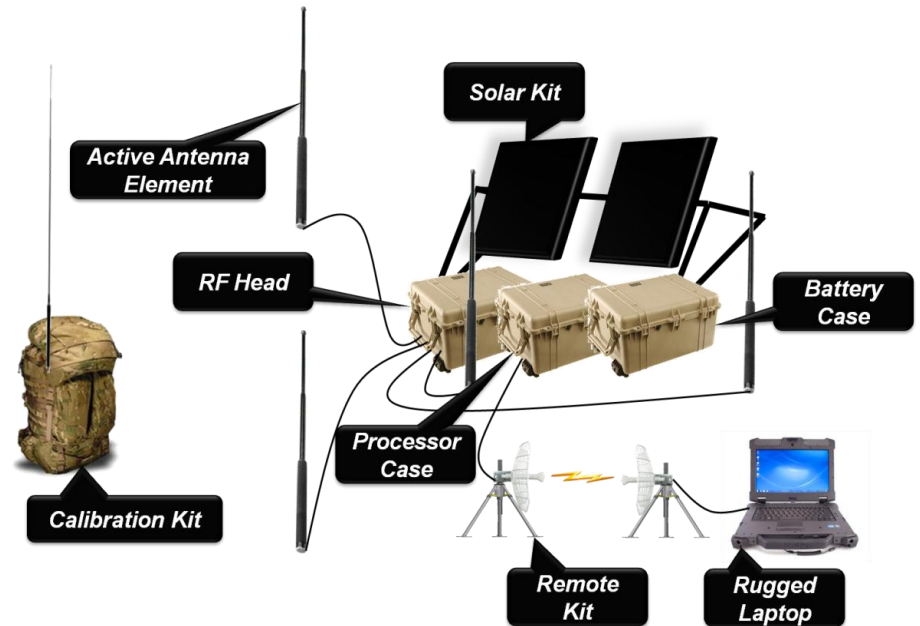
# Watchdog HF System Overview

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- Designed using Miser technologies
  - Low power
  - Wideband
  - High sensitivity
  - Wide temperature range
  - Rugged
  - Direction Finding
- Most functions are already supported by existing software
  - MiserServer -> WdServer
  - MiserView -> WdView

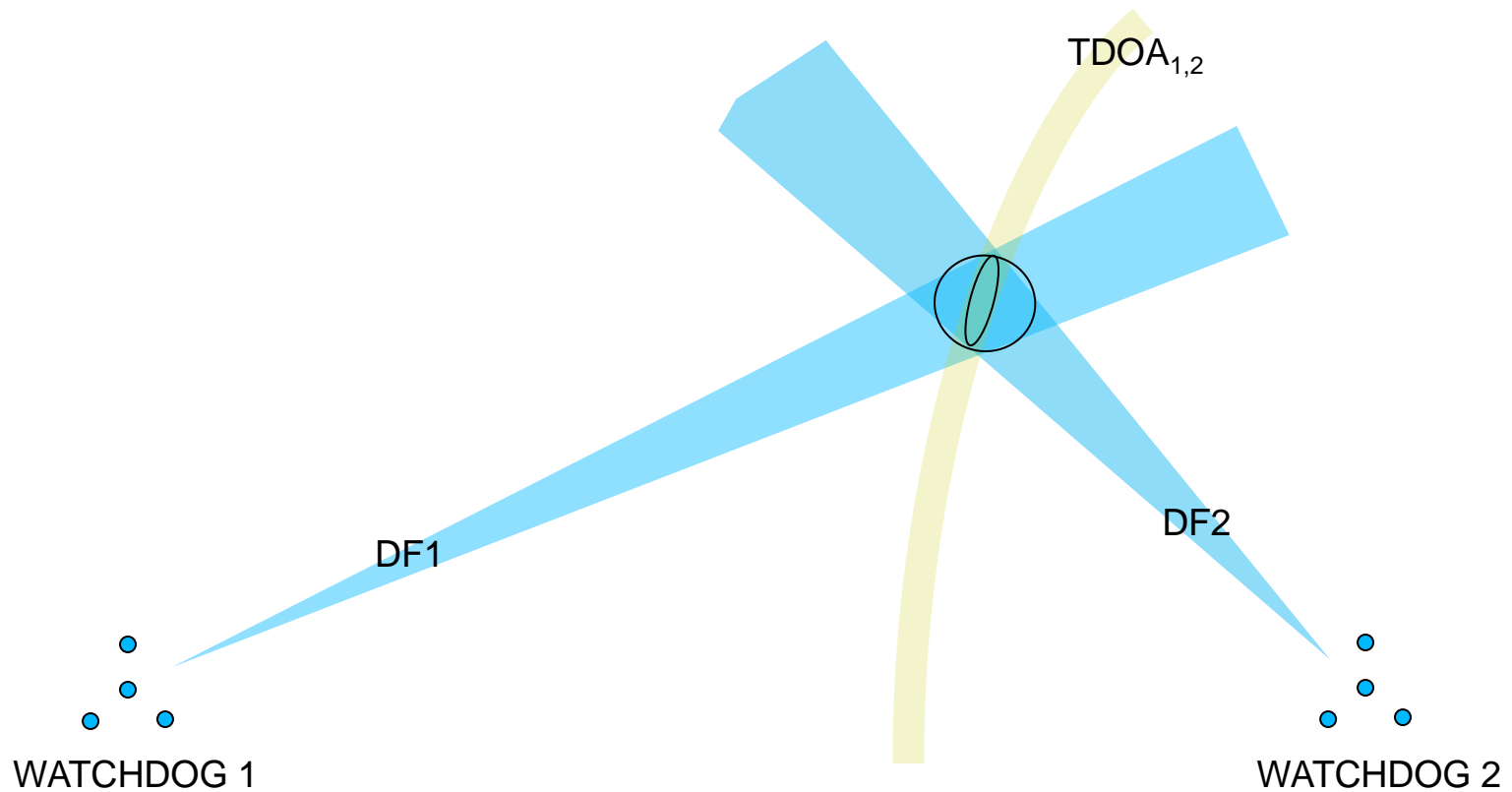
# Watchdog Introduction

- Tactical Broadband Radio Direction Finding System
  - 3 to 30 Mhz (HF)
- Broadband Spectrum Monitor
  - Not a scanner
- Covert, lightweight, expendable, modular, low cost
  - Systems start at \$78k (base unit)
- Detects, DF's and records radio transmissions
- Real time monitoring and recording of voice communications

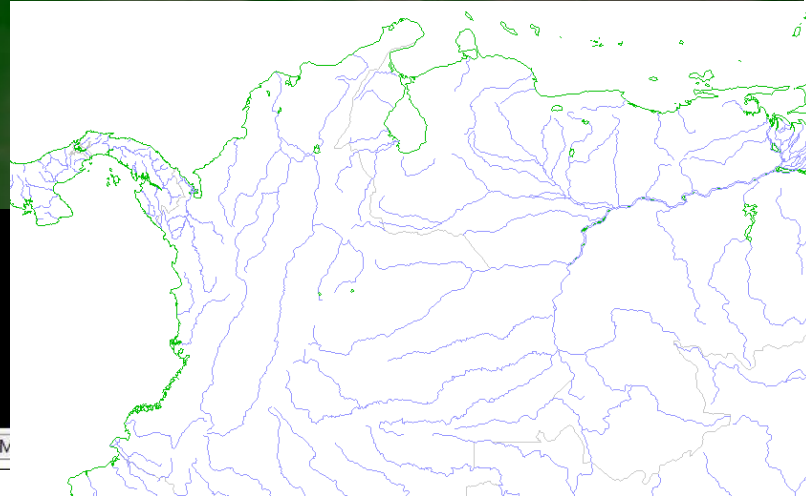
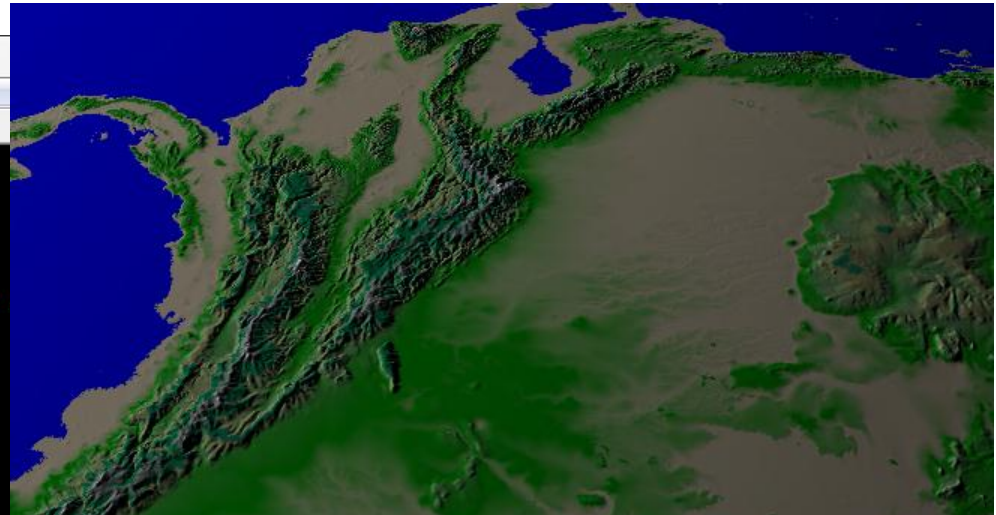
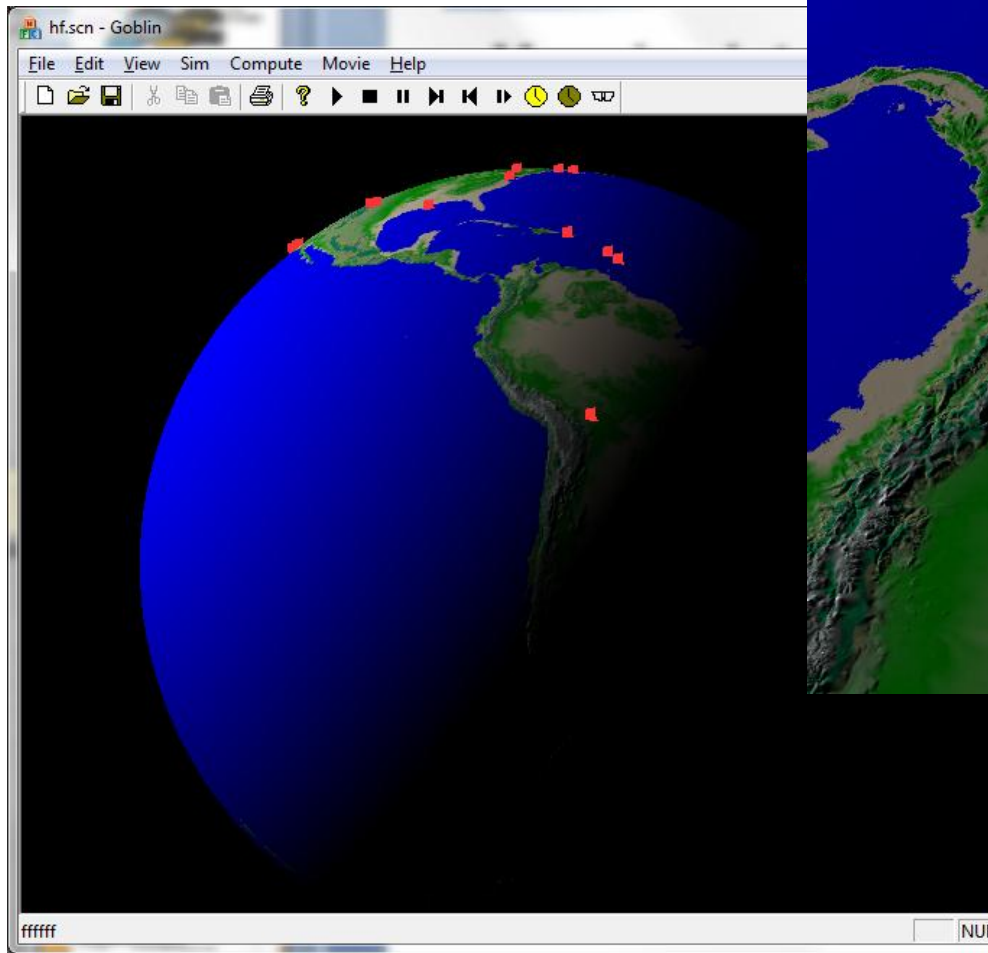


# TDOA + DF, 2 WATCHDOGS

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# Mapping Interface



# PolyAna into Waterfall View

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- PolyAna (Poly-dimensional Analyzer)
  - 2d plot program
  - Any parameter against any other parameter
  - Allows sorting in any number of parameters
- Used in constellation analysis
- Used to understand and interpret Kent Island data
- Provides powerful intel understanding tool within complex HF data collected by WATCHDOG